



DOCKET NO.: T0457.70019US00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Tao T. Tao et al.
Serial No.: 10/627,330
Confirmation No.: 2277
Filed: July 25, 2003
For: AN ELECTROCHEMICAL DEVICE AND METHODS
FOR ENERGY CONVERSION

Examiner: Angela J. Martin
Art Unit: 1745

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to MAIL STOP AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 3rd day of July, 2007.

Melanie Chiswick
Signature

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**STATEMENT FILED PURSUANT TO THE DUTY OF
DISCLOSURE UNDER 37 C.F.R. §§1.56, 1.97 AND 1.98**

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicants request consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed more than three months after the filing date of this application and after the mailing date of the first Office action, but before the mailing date of any final action under 37 C.F.R. §1.113, a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in this application.

The fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) is enclosed.

PART II: Information Cited

The Applicants hereby make of record in the above-identified application the information listed on the attached form PTO-1449 (modified PTO/SB/08). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicants hereby make the following additional information of record in the above-identified application.

The Applicants would like to bring to the Examiner's attention the following co-pending applications that may contain subject matter related to this application:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor(s)</u>	<u>Atty Docket No.</u>
10/744,602	12/23/03	Tao, et al.	T0457.70010US00
11/167,079	6/24/05	Blake, et al.	T0457.70012US02
11/294,676	12/5/05	Blake, et al.	T0457.70014US01
11/800,050	5/22/07	Tao, et al.	T0457.70025US00

PART III: Explanation of Non-English Language References and Remarks Concerning Other Information Cited

The following is a concise explanation of the relevance of each non-English language reference listed on the attached form PTO-1449 (modified) for which the Applicants do not have an English translation.

DE 19946695 is generally directed to a fuel cell separator construction for use in batteries, using one or more intermediate plating layer and a noble plating layer layered on to the plating layer.

DE 19961496 is generally directed to a separator used in an electrochemical fuel cell comprising a conducting metal plate, a conducting coating membrane on the plate so that the separator contacts the electrode, and a stationary coating membrane.

DE 2650960 is generally directed to a method and apparatus for electrochemical generation of power from hydrogen.

DE 367151 is generally directed to a high temperature fuel cell.

PART IV: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 (modified PTO/SB/08) be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicants make no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicants, the Examiner is urged to form his or her own conclusion regarding the relevance of the cited information.

Serial No.: 10/627330
Conf. No.: 2277


- 4 -

Art Unit: 1745

An early and favorable action is hereby requested.

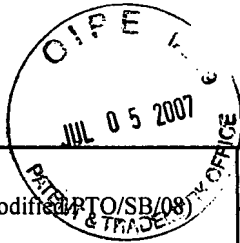
Respectfully submitted,

By:



Tani Chen, Sc.D., Reg. No. 52,728
Timothy J. Oyer, Ph.D., Reg. No. 36,628
Wolf, Greenfield & Sacks, P.C.
600 Atlantic Avenue
Boston, Massachusetts 02210-2206
Telephone: (617) 646-8000

Docket No.: T0457.70019US00
Date: July 3, 2007
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FORM PTO-1449/A and B (modified)

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

APPLICATION NO.: 10/627330

ATTY. DOCKET NO.: T0457.70019US00

FILING DATE: July 25, 2003

CONFIRMATION NO.: 2277

APPLICANT: Tao T. Tao et al.

GROUP ART UNIT: 1745

EXAMINER: Angela J. Martin

Sheet 1 of 4

U.S. PATENT DOCUMENTS

Examiner's Initials #	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
		2002/0015871	A1	Tao	02-07-2002
		2002/0015877	A1	Tao	02-07-2002
		2002/0051900	A1	Okamoto et al.	05-02-2002
		2002/0114990	A1	Fly et al.	08-22-2002
		2003/0143440	A1	Tao et al.	07-31-2003
		2004/0058203	A1	Priestnall et al.	03-25-2004
		2004/0166398	A1	Tao et al.	08-26-2004
		2004/0202924	A1	Tao et al.	10-14-2004
		2004/0251241	A1	Blutke et al.	12-16-2004
		2005/0089738	A1	Tao et al.	04-28-2005
		2006/0040167	A1	Blake et al.	02-23-2006
		2007/0048555	A1	Blake et al.	03-01-2007
		460122		Edison	09-29-1891
		3138490		Tragert et al.	06-23-1964
		3432352		White et al.	03-11-1969
		3741809		Anbar	06-26-1973
		3953227		Jones et al.	04-27-1976
		3970474		Anbar et al.	07-20-1976
		3982957		Jones et al.	09-28-1976
		4042755		Anbar	08-16-1977
		4170534		Fitterer	10-09-1979
		4670702		Yamada et al.	06-02-1987
		4824739		Breault et al.	04-25-1989
		4826740		Costa	05-02-1989
		4853094		Honders et al.	08-01-1989
		4883724		Yamamoto	11-28-1989
		4894297		Singh et al.	01-16-1990
		4973531		Zaima et al.	11-27-1990
		5035962		Jensen	07-30-1991
		5045170		Bullock et al.	09-03-1991
		5139895		Roy et al.	08-18-1992
		5290323		Okuyama	03-01-1994
		5298340		Cocks et al.	03-29-1994
		5312699		Yanagi et al.	05-17-1994
		5316870		Ohga	05-31-1994
		5348812		Cocks et al.	09-20-1994

FORM PTO-1449/A and B (modified PTO/SB/08) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 10/627330		ATTY. DOCKET NO.: T0457.70019US00			
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				APPLICANT: Tao T. Tao et al.					
				GROUP ART UNIT: 1745		EXAMINER: Angela J. Martin			
Sheet	2	of	4						

U.S. PATENT DOCUMENTS (cont.)

	5350641	Mogensen et al.	09-27-1994
	5376469	Gur et al.	12-27-1994
	5523177	Kosek et al.	06-04-1996
	5532078	Redey et al.	07-02-1996
	5558947	Robison	09-24-1996
	5567540	Stone et al.	10-22-1996
	5589287	Hatoh et al.	12-31-1996
	5589289	Zhang et al.	12-31-1996
	5591537	Bagger et al.	01-07-1997
	5595832	Tomimatsu et al.	01-21-1997
	5595833	Gardner et al.	01-21-1997
	5604048	Nishihara et al.	02-18-1997
	5637414	Inoue et al.	06-10-1997
	5747185	Hsu	05-05-1998
	5750278	Gillett et al.	05-12-1998
	5766786	Fleck et al.	06-16-1998
	5866090	Nakagawa et al.	02-02-1999
	5942349	Badwal et al.	08-24-1999
	5985474	Chen et al.	11-16-1999
	6096449	Fuglevand et al.	08-01-2000
	6120926	Szydlowski et al.	09-19-2000
	6120933	Phelps	09-19-2000
	6127057	Gorman	10-03-2000
	6162554	Nolscher et al.	12-19-2000
	6200697	Pesavento	03-13-2001
	6242120	Herron	06-05-2001
	6265093	Surampudi et al.	07-24-2001
	6300011	Lin et al.	10-09-2001
	6348278	LaPierre et al.	02-19-2002
	6379485	Borglum	04-30-2002
	6383678	Kaneko	05-07-2002
	6403246	Mizuno	06-11-2002
	6461751	Boehm et al.	10-08-2002
	6587766	Bruckner	07-01-2003
	6641944	Kawasumi et al.	11-04-2003
	6692861	Tao	02-17-2004
	6827832	Henuset et al.	12-07-2004
	6890672	Dickman et al.	05-10-2005

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Sheet	3	of	4						

FOREIGN PATENT DOCUMENTS

Examiner's Initials #	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
		DE	19946695	A1	Aisin Takaoka Co., Ltd., Toyota Aichi, JP, Nippon Chemical Denshi Co., Ltd., Owariasahi, Aichi, JP	04-13-2000	N
		DE	19961496	A1	Toyota Jidosha K.K. et al.	07-06-2000	N
		DE	2650960	A1	U.S. Department of Commerce, Washington, D.C.		N
		DE	367151		Ladislaus von Rhorer Dr.	01-18-1923	N
		DE	4004220	C1	Koch, Hans-Helmut, MBA, 5600 Wuppertal, DE	04-18-1991	Y
		EP	0001351	A1	Chloride Silent Power Limited	04-04-1979	
		EP	0333261	A2	Costa, Bruno	09-20-1989	
		EP	0817297	A2	De Nora S.P.A.	01-07-1998	
		EP	1132986	A2	Toyota Jidosha Kabushiki Kaisha	09-12-2001	
		EP	1148566	A2	Toyota Jidosha Kabushiki Kaisha	10-24-2001	
		FR	2020742		Varta AG; Siemens AG	07-17-1970	Abstract
		FR	2207365		Rhein Westfael Elect. Werk AG	06-14-1974	Abstract
		GB	126766		Baur Emil (CH); Treadwell William Dupre (CH)	05-16-1919	
		GB	940900		General Electric Company	11-06-1963	
		GB	1276260		Deutsche Automobilegesellschaft Mit Beschränkter Haftung	06-01-1972	
		GB	2278010	A	Director-General Of Agency of Industrial Science and Technology	11-14-1994	
		JP	08-96826		Shin Kobe Electric Mach Co. Ltd.	02-19-1985	Abstract
		JP	60-32254		Ishikawajima Harima Heavy Ind. Co. Ltd.	04-12-1996	Abstract
		WO	90/02425	A1	Altus Corporation	03-08-1990	
		WO	95/09450	A1	The Board of Trustees of the Leland Stanford Junior University	04-06-1995	
		WO	00/77872	A1	Gas Research Institute	12-21-2000	
		WO	01/28019	A2	Alliedsignal Inc.	04-19-2001	
		WO	01/97314	A1	California Institute of Technology	12-20-2001	
		WO	03/001617	A2	CellTech Power, Inc.	01-03-2003	
		WO	03/044887	A2	CellTech Power, Inc.	05-30-2003	
		WO	03/067683	A2	CellTech Power, Inc.	08-14-2003	
		WO	2004/112175	A2	CellTech Power, Inc.	12-23-2004	

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				GROUP ART UNIT: 1745	EXAMINER: Angela J. Martin
Sheet	4	of	4		

OTHER ART – NON PATENT LITERATURE DOCUMENTS

Examiner's Initials #	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
		ALBERTY, R.A., "Electrochemical Cells Fuel Cells," <i>Physical Chemistry</i> (6 th Ed.), pp. 228-229 (1983)	
		GRANT ABSTRACT, "Novel Carbon Ion Fuel Cells," P/METC-DE-FG22-93PC93219, Duke Univ.	
		GRANT ABSTRACT, "Novel Carbon Ion Fuel Cells," P/PETC-FG22-93PC93219, Duke Univ.	
		GUR et al., "Direct Electrochemical Conversion of Carbon to Electrical Energy in a High Temperature Fuel Cell," <i>J. Electrochem.</i> , Vol. 139, No. 10 pp. L95-L97 (1992)	
		LU et al., "Development of solid oxide fuel cells for the direct oxidation of hydrocarbon fuels," <i>Solid State Ionics</i> , Vol. 152, pp. 383-397 (2002)	
		WEAVER et al., "Direct use of coal in a fuel cell: feasibility investigation," <i>Chemical Abstracts</i> , 180031, Vol. 85, No. 24, p. 146	
		YENTEKAKIS et al., "A Novel Fused Metal Anode Solid Electrolyte Fuel Cell for Direct Coal Gasification: A Steady-State Model," <i>Ind. Eng. Chem. Res.</i> , Vol. 28, pp. 1414-1424 (1989)	

EXAMINER:	DATE CONSIDERED:
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. __, filed __, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE – No copies of U.S. patents, published U.S. patent applications, or pending, unpublished patent applications stored in the USPTO's Image File Wrapper (IFW) system, are included. See 37 CFR §1.98 and 1287OG163. Copies of all other patent(s), publication(s), unpublished, pending U.S. patent applications, or other information listed are provided as required by 37 CFR §1.98 unless 1) such copies were provided in an IDS in an earlier application that complies with 37 CFR §1.98, and 2) the earlier application is relied upon for an earlier filing date under 35 U.S.C. §120.]